

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P755160

Luminaire Tested: LD4D85BD010-EU4DR6570959050-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D85BD010-EU4DR6570959050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7563.1 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

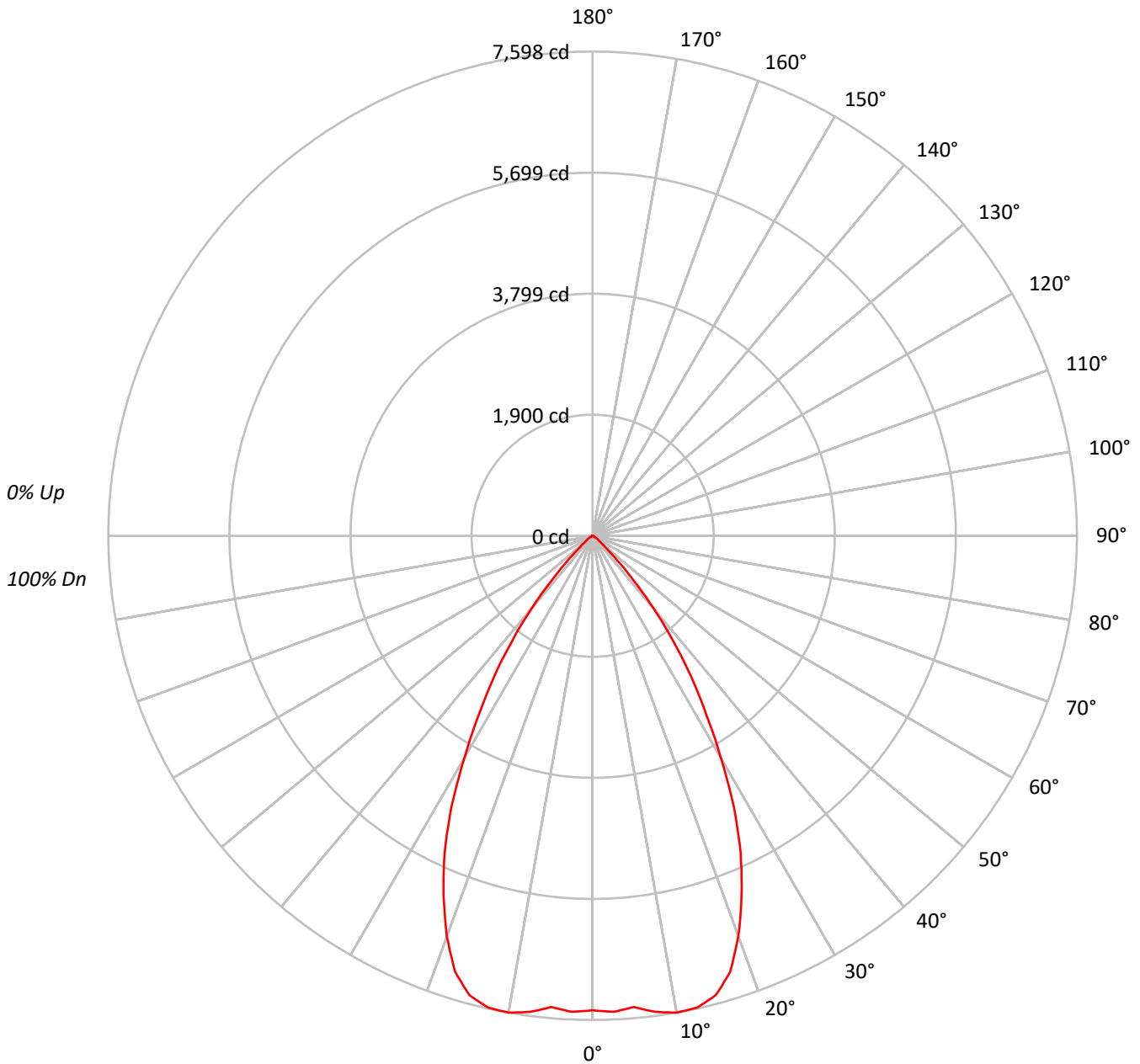
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69																			
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65																			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60																			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57																			
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53																			
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	813599
5°	814272
10°	842937
15°	844336
20°	777354
25°	662346
30°	507051
35°	358226
40°	211449
45°	85835
50°	31123
55°	17335
60°	9943
65°	5481
70°	5750
75°	4475
80°	4656
85°	4012

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 85835 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	717.0	9.5
10°-20°	2068.3	27.3
20°-30°	2481.6	32.8
30°-40°	1667.7	22.1
40°-50°	499.2	6.6
50°-60°	88.1	1.2
60°-70°	25.0	0.3
70°-80°	12.3	0.2
80°-90°	3.9	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5266.9	69.6
0°-40°	6934.6	91.7
0°-60°	7521.9	99.5
0°-90°	7563.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7563.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7446	
5°	7424	717
15°	7464	2068
25°	5494	2482
35°	2686	1668
45°	556	499
55°	91	88
65°	21	25
75°	11	12
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7446.4
2.5°	7478.2
5°	7424.2
7.5°	7536.4
10°	7597.7
12.5°	7582.9
15°	7464.4
17.5°	7174.5
20°	6685.6
22.5°	6109.9
25°	5494.1
27.5°	4798.8
30°	4019.0
32.5°	3312.1
35°	2685.7
37.5°	2066.6
40°	1482.5
42.5°	968.2
45°	555.5
47.5°	294.2
50°	183.1
52.5°	127.0
55°	91.0
57.5°	65.6
60°	45.5
62.5°	29.6
65°	21.2
67.5°	19.0
70°	18.0
72.5°	13.8
75°	10.6
77.5°	9.5
80°	7.4
82.5°	5.3
85°	3.2
87.5°	2.1
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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